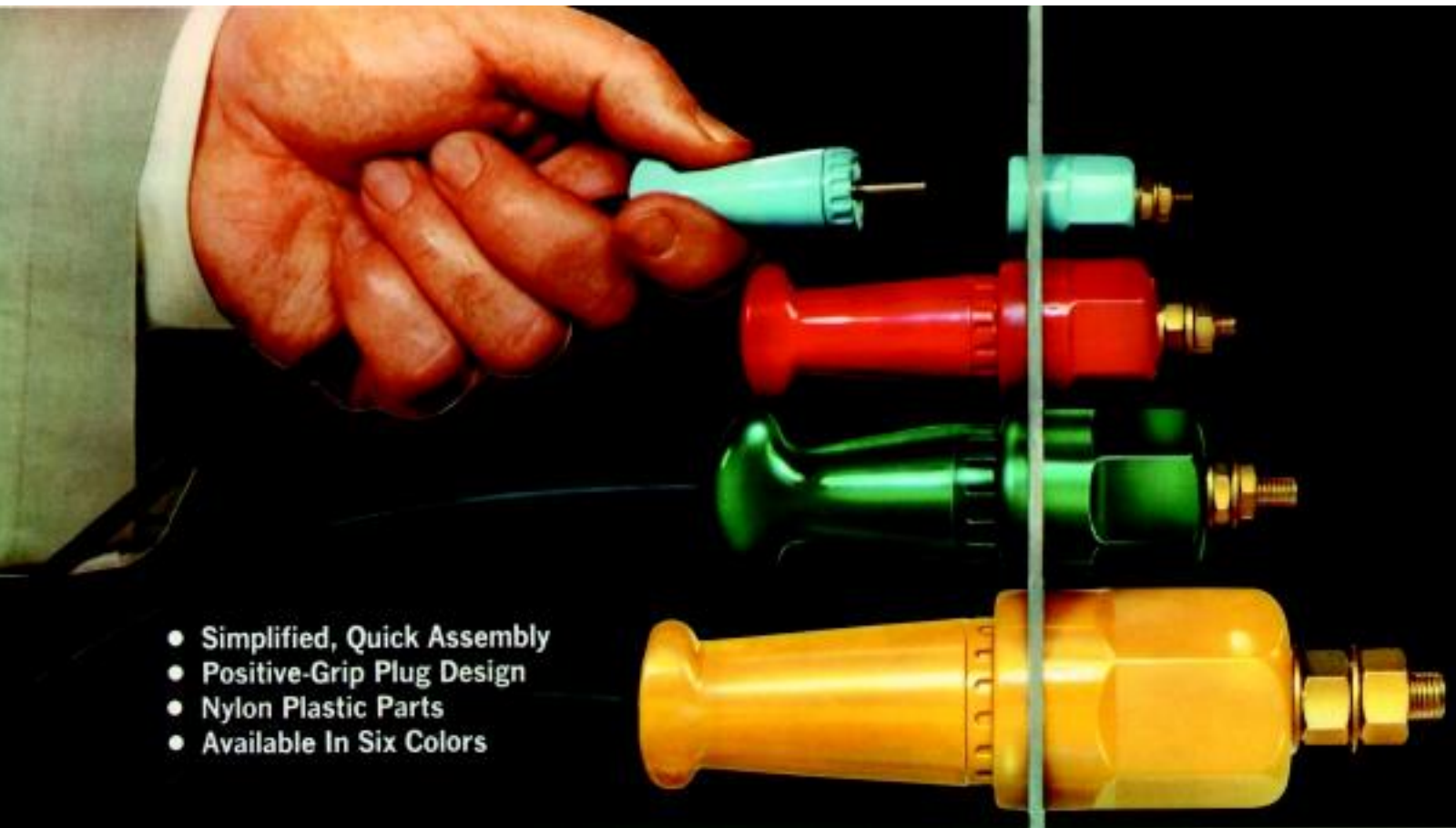


# SUPERCON®

## Electrical Connectors

- 
- Simplified, Quick Assembly
  - Positive-Grip Plug Design
  - Nylon Plastic Parts
  - Available In Six Colors

SUPERCON® Electrical Connectors incorporate many advanced engineering features designed to provide safe, rapid and positive panelboard connections. Single conductor socket and pin type plugs and receptacles are offered in 25, 50, 100 and 250 Amp capacities.

The 25, 50 and 100 Amp types are rated 125-250 VAC or DC current interrupting, 600 V unenergized connect or disconnect use only; 250 Amp types are rated 600 V unenergized connect or disconnect use only. The 25, 50 and 100 Amp types are CSA certified under file No. LR-17812.

**PLUGS** - Plugs have a unique functionally designed grip for handling ease and convenience. The variety of red, white, blue, yellow, black or green colors

permits wider latitude in patchboard distribution layouts. Wiring connection to the same plug can be either soldered or solderless. Cable fastening screws are provided which permit a range of cable sizes to be accommodated by the plug. All plug grips are of a simple, two-piece threaded construction for quick assembly.

**RECEPTACLES** - Receptacles have color-matched nylon caps and bodies. All plastic parts of a receptacle are molded through in the same color to permit more rapid and accurate circuit identification on both the front and back of the panel when installed. Wiring connections are made to a threaded stud by wire wraparound, by lug or bus bar connection.



# SUPERCON®

## Electrical Connectors



PP25GR



RS25GR



PS25GWT



RP25GWT

### 25 AMPERE TYPES

| COLOR  | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
|--------|-------------------|----------|----------------|-------------|
| BLACK  | RS25GB            | PP25GB   | RP25GB         | PS25GB      |
| YELLOW | RS25GY            | PP25GY   | RP25GY         | PS25GY      |
| RED    | RS25GR            | PP25GR   | RP25GR         | PS25GR      |
| BLUE   | RS25GBL           | PP25GBL  | RP25GBL        | PS25GBL     |
| GREEN  | RS25GGN           | PP25GGN  | RP25GGN        | PS25GGN     |
| WHITE  | RS25GWT           | PP25GWT  | RP25GWT        | PS25GWT     |



PP50GY



RS50GY



PS50GBL



RP50GBL

### 50 AMPERE TYPES

| COLOR  | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
|--------|-------------------|----------|----------------|-------------|
| BLACK  | RS50GB            | PP50GB   | RP50GB         | PS50GB      |
| YELLOW | RS50GY            | PP50GY   | RP50GY         | PS50GY      |
| RED    | RS50GR            | PP50GR   | RP50GR         | PS50GR      |
| BLUE   | RS50GBL           | PP50GBL  | RP50GBL        | PS50GBL     |
| GREEN  | RS50GGN           | PP50GGN  | RP50GGN        | PS50GGN     |
| WHITE  | RS50GWT           | PP50GWT  | RP50GWT        | PS50GWT     |



PP100GB



RS100GB



PS100GGN



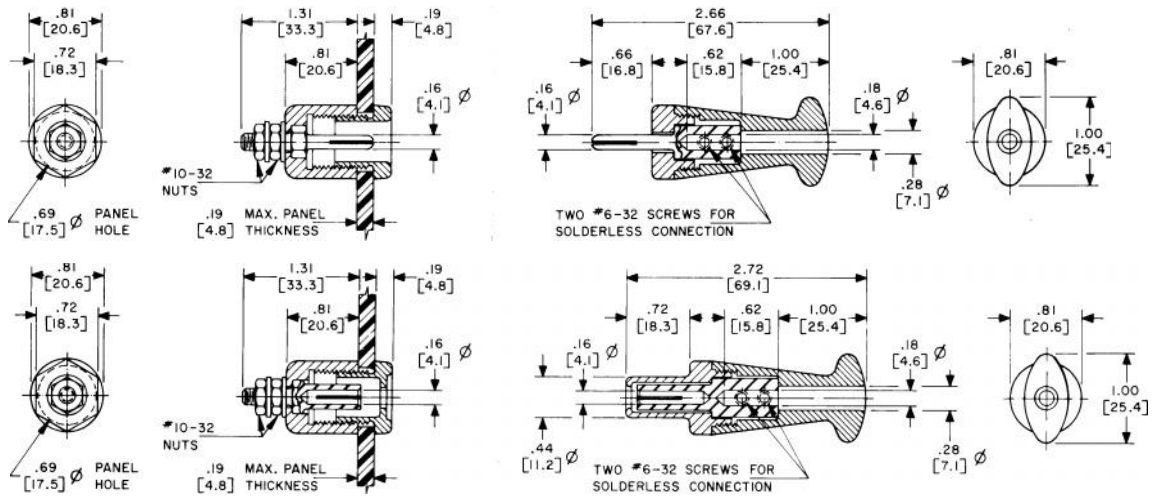
RP100GGN

### 100 AMPERE TYPES

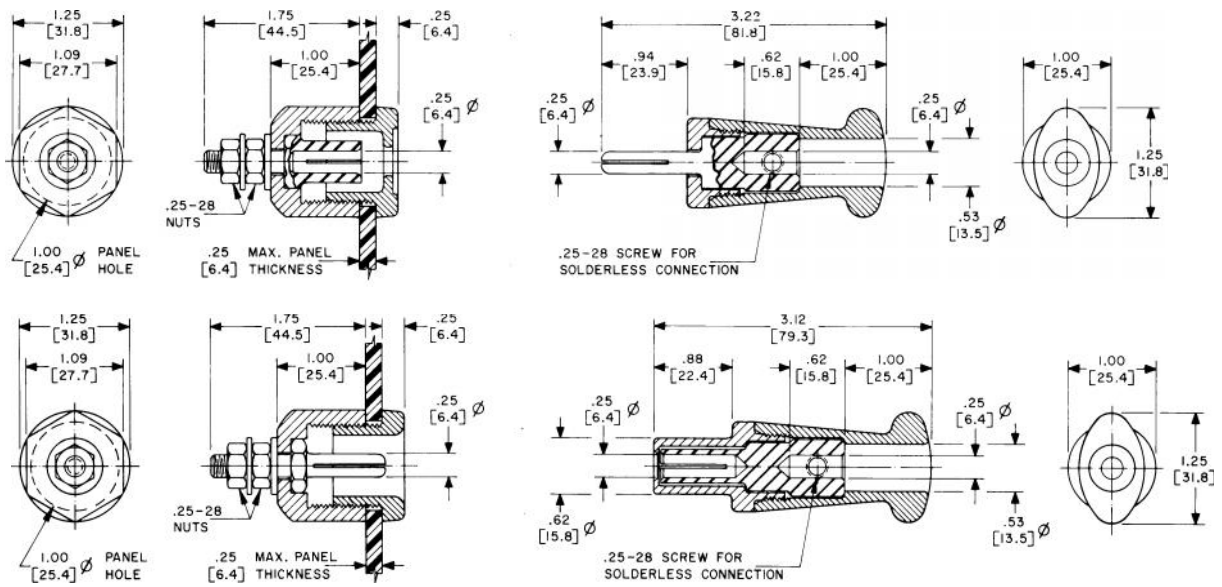
| COLOR  | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
|--------|-------------------|----------|----------------|-------------|
| BLACK  | RS100GB           | PP100GB  | RP100GB        | PS100GB     |
| YELLOW | RS100GY           | PP100GY  | RP100GY        | PS100GY     |
| RED    | RS100GR           | PP100GR  | RP100GR        | PS100GR     |
| BLUE   | RS100GBL          | PP100GBL | RP100GBL       | PS100GBL    |
| GREEN  | RS100GGN          | PP100GGN | RP100GGN       | PS100GGN    |
| WHITE  | RS100GWT          | PP100GWT | RP100GWT       | PS100GWT    |



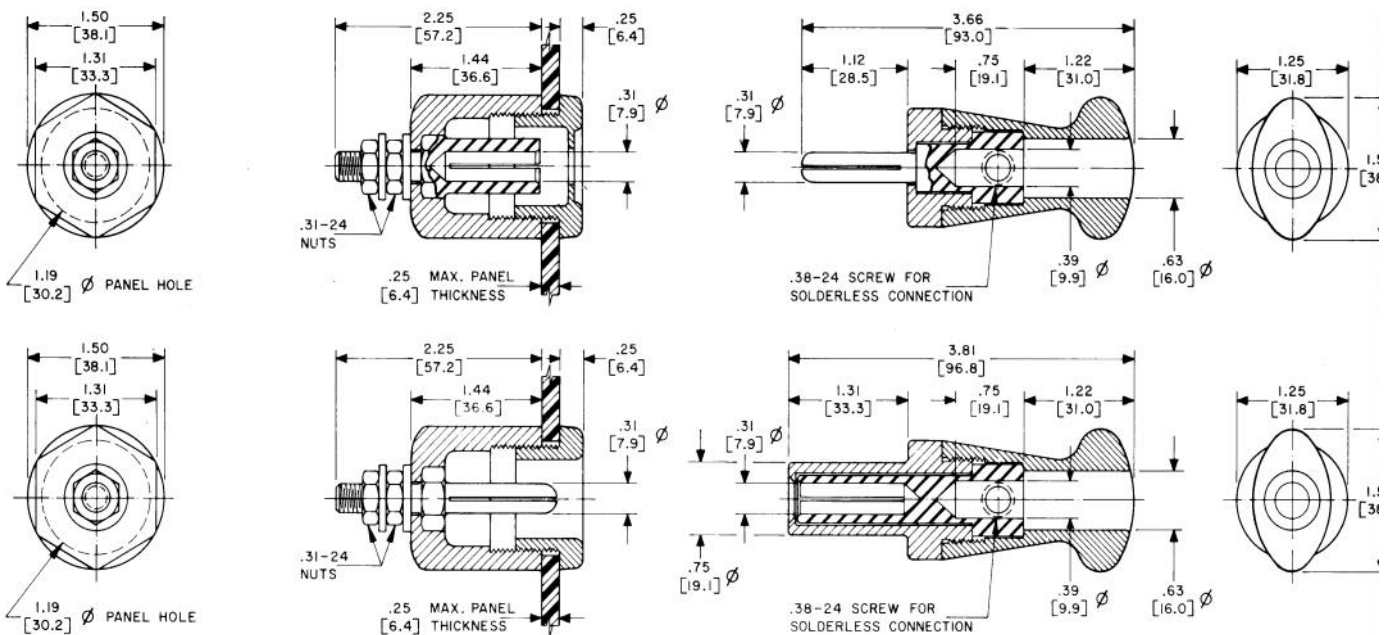
## 25 AMPERE TYPES OUTLINES



## 50 AMPERE TYPES OUTLINES



## 100 AMPERE TYPES OUTLINES





# SUPERCON®

## Electrical Connectors



PP250GY

RS250GY



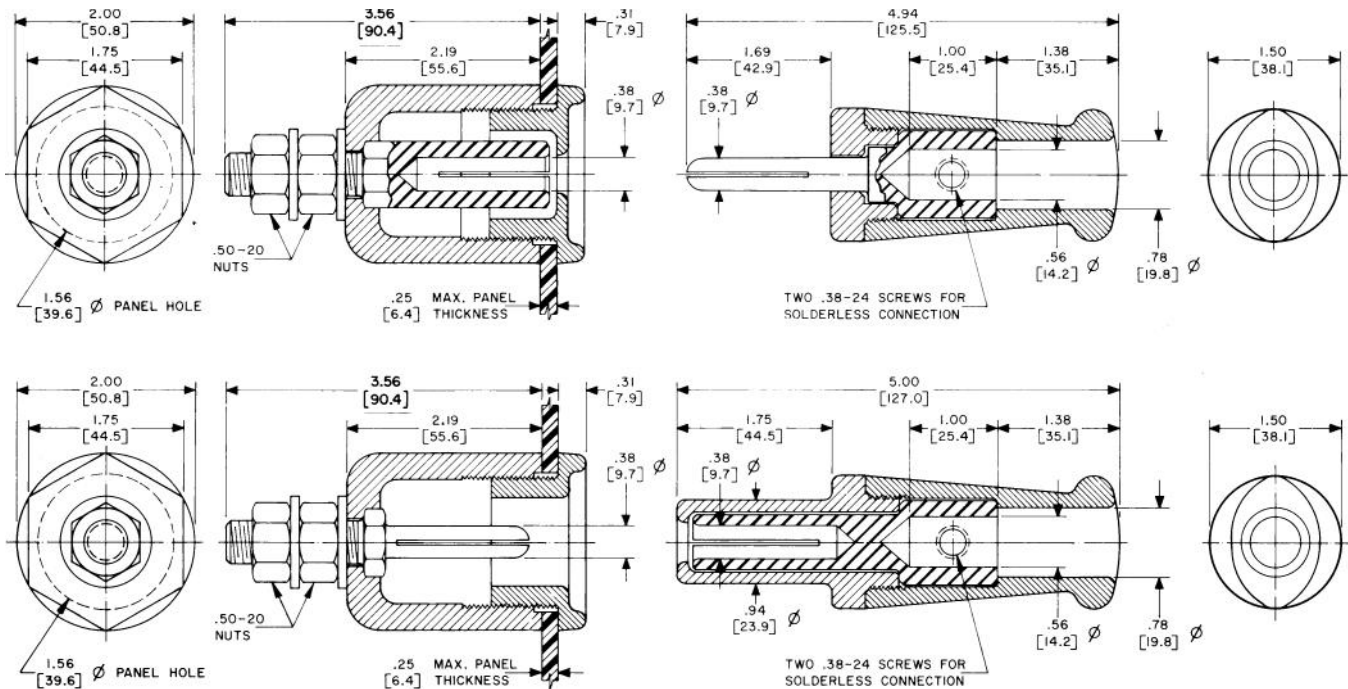
PS250GR

RP250GR

### 250 AMPERE TYPES

| COLOR  | SOCKET RECEPTACLE | PIN PLUG | PIN RECEPTACLE | SOCKET PLUG |
|--------|-------------------|----------|----------------|-------------|
| BLACK  | RS250GB           | PP250GB  | RP250GB        | PS250GB     |
| YELLOW | RS250GY           | PP250GY  | RP250GY        | PS250GY     |
| RED    | RS250GR           | PP250GR  | RP250GR        | PS250GR     |
| BLUE   | RS250GBL          | PP250GBL | RP250GBL       | PS250GBL    |
| GREEN  | RS250GGN          | PP250GGN | RP250GGN       | PS250GGN    |
| WHITE  | RS250GWT          | PP250GWT | RP250GWT       | PS250GWT    |

### 250 AMPERE TYPES OUTLINES



## SUPERCON® Electrical Connectors - General Specifications

|                                                      |                                                                     | 25-Amp                                                                                             | 50-Amp                                              | 100-Amp             | 250-Amp                                                     |    |
|------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------|-------------------------------------------------------------|----|
| General Specifications                               | Voltage Rating                                                      | 125 /250 Volts AC or DC, Current Interrupting                                                      |                                                     |                     | 600 Volts AC or DC, Unenergenized Connect or Disconnect Use |    |
|                                                      |                                                                     | 600 Volts AC or DC, Unenergerized Connect or Disconnect Use                                        |                                                     |                     |                                                             |    |
|                                                      | Insulating Material                                                 | Nylon 6, Flammability Rating of UL94-V2 and CSA.6V2, Military Specifications of Mil-P-20693 Type 4 |                                                     |                     |                                                             |    |
|                                                      | Brass Material                                                      | 1/2 Hard Brass per ASTM B16 (Formerly QQ-B-626A and Mil-C-895C)                                    |                                                     |                     |                                                             |    |
|                                                      | Finish                                                              | Immersion Gold Plated                                                                              |                                                     |                     |                                                             |    |
|                                                      | Max. Panel Spacing (in/mm)                                          | 1.38 (35.1)                                                                                        | 1.75 (44.5)                                         | 2.00 (50.8)         | 3.00 (76.2)                                                 |    |
|                                                      | Max. Panel Thickness (in/mm)                                        | .19 (4.8)                                                                                          | .25 (6.4)                                           | 25 (6.4)            | 25 (6.4)                                                    |    |
|                                                      | Panel Hole Diameter (in/mm)                                         | .69 (17.5)                                                                                         | 1.00 (25.4)                                         | 1.19 (30.2)         | 1.56 (39.6)                                                 |    |
|                                                      | Pin Diameter (in/mm)                                                | .16 (4.1)                                                                                          | .25 (6.4)                                           | .31 (7.9)           | .38 (9.7)                                                   |    |
|                                                      | Max. Wire Size (AGW)                                                | #14 to #10                                                                                         | #10 to #6                                           | #6 to #2            | #2 to 250 MCM                                               |    |
|                                                      | Max. Wire O.D. (in/mm)                                              | .25 (6.4)                                                                                          | .50 (12.7)                                          | .62 (15.8)          | .75 (19.1)                                                  |    |
|                                                      | Voltage Drop @ Rated Current                                        | 2 ± 1 millivolts                                                                                   | 4 ± 2 millivolts                                    | 10 ± 5 millivolts   | 32 ± 16 millivolts                                          |    |
|                                                      | Resistivity @ Rated Current                                         | .08 ± .02 milliohms                                                                                | .08 ± .02 milliohms                                 | .10 ± .02 milliohms | .128 ± .02 milliohms                                        |    |
|                                                      | Dielectric Strength                                                 | 3,000 Volts                                                                                        |                                                     |                     |                                                             |    |
|                                                      | Breakdown Voltage                                                   | 10,000 Volts Minimum                                                                               |                                                     |                     |                                                             |    |
|                                                      | Insertion Force (lbs)                                               | Min                                                                                                | 5                                                   | 10                  | 12                                                          | 15 |
|                                                      |                                                                     | Max                                                                                                | 14                                                  | 32                  | 42                                                          | 50 |
|                                                      | Withdrawal Force (lbs)                                              | Min                                                                                                | 7                                                   | 16                  | 21                                                          | 25 |
|                                                      |                                                                     | Max                                                                                                | 14                                                  | 32                  | 42                                                          | 50 |
|                                                      |                                                                     | Tightening Torque                                                                                  | Wire Retention Set Screw Torque & Wire Strip Length |                     |                                                             |    |
| 20 ± 3 in/lbs.                                       |                                                                     |                                                                                                    | 35 ± 3 in/lbs.                                      | 40 ± 3 in/lbs.      | 50 ± 3 in/lbs.                                              |    |
| Strip Length                                         |                                                                     | 5/8 ± 3/64 in.                                                                                     | 5/8 ± 1/16 in.                                      | 3/4 ± 1/16 in.      | 1 1/4 ± 1/16 in.                                            |    |
| Receptacle Mounting Torque to Panel (Max)            |                                                                     | 20 in/lbs.                                                                                         | 50 in/lbs.                                          | 50 in/lbs.          | 50 in/lbs.                                                  |    |
| Receptacle Nut Torque - Nut to Plastic or Nut to Nut | 17 to 25 in/lbs.                                                    | 50 to 75 in/lbs.                                                                                   | 75 to 110 in/lbs.                                   | 200 to 300 in/lbs.  |                                                             |    |
| Operating Conditions                                 | Operating Temperature                                               | -107°C to -40°C (225°F to -40°F)                                                                   |                                                     |                     |                                                             |    |
|                                                      | Temperature Rise @ Rated Current (max wire size per connector used) | ≤30°C                                                                                              |                                                     |                     |                                                             |    |
| Approvals                                            | Standard Compliance                                                 | RoHS                                                                                               |                                                     |                     |                                                             |    |
|                                                      |                                                                     | CSA Listed - File LR17812 in accordance with CSA Standard C22.2 No. 182-M1984                      |                                                     |                     |                                                             |    |